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TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

|      |    |        |   |
|------|----|--------|---|
| NEWS | 1  |        | Web Page for STN Seminar Schedule - N. America  |
| NEWS | 2  | OCT 02 | CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt                |
| NEWS | 3  | OCT 19 | BEILSTEIN updated with new compounds  |
| NEWS | 4  | NOV 15 | Derwent Indian patent publication number format enhanced                              |
| NEWS | 5  | NOV 19 | WPIX enhanced with XML display format   |
| NEWS | 6  | NOV 30 | ICSD reloaded with enhancements   |
| NEWS | 7  | DEC 04 | LINPADOCDB now available on STN   |
| NEWS | 8  | DEC 14 | BEILSTEIN pricing structure to change   |
| NEWS | 9  | DEC 17 | USPATOLD added to additional database clusters  |
| NEWS | 10 | DEC 17 | IMSDRUGCONF removed from database clusters and STN                                    |
| NEWS | 11 | DEC 17 | DGENE now includes more than 10 million sequences                                     |
| NEWS | 12 | DEC 17 | TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment                       |
| NEWS | 13 | DEC 17 | MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary                                |
| NEWS | 14 | DEC 17 | CA/CAPplus enhanced with new custom IPC display formats                               |
| NEWS | 15 | DEC 17 | STN Viewer enhanced with full-text patent content from USPATOLD                       |
| NEWS | 16 | JAN 02 | STN pricing information for 2008 now available  |
| NEWS | 17 | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances              |
| NEWS | 18 | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats          |
| NEWS | 19 | JAN 28 | MARPAT searching enhanced   |
| NEWS | 20 | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication                  |
| NEWS | 21 | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment                                      |
| NEWS | 22 | JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements                                       |
| NEWS | 23 | FEB 08 | STN Express, Version 8.3, now available   |
| NEWS | 24 | FEB 20 | PCI now available as a replacement to DPCI  |
| NEWS | 25 | FEB 25 | IFIREF reloaded with enhancements   |
| NEWS | 26 | FEB 25 | IMSPRODUCT reloaded with enhancements   |
| NEWS | 27 | FEB 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

|            |   |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability               |
| NEWS LOGIN | Welcome Banner and News Items                                 |
| NEWS IPC8  | For general information regarding STN implementation of IPC 8 |

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:56:41 ON 26 MAR 2008

| => file medline, agricola, caba, caplus, biosis, biotechno |            |         |
|--|------------|---------|
| COST IN U.S. DOLLARS                                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST  | 0.21       | 0.21    |

FILE 'MEDLINE' ENTERED AT 14:57:24 ON 26 MAR 2008

FILE 'AGRICOLA' ENTERED AT 14:57:24 ON 26 MAR 2008

FILE 'CABA' ENTERED AT 14:57:24 ON 26 MAR 2008  
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FILE 'CAPLUS' ENTERED AT 14:57:24 ON 26 MAR 2008  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE 'BIOSIS' ENTERED AT 14:57:24 ON 26 MAR 2008  
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FILE 'BIOTECHNO' ENTERED AT 14:57:24 ON 26 MAR 2008  
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=> s (cooper, b? or cooper b?)/au  
L1 4668 (COOPER, B? OR COOPER B?)/AU

=> s l1 and two(w)hybrid  
L2 12 L1 AND TWO(W) HYBRID

=> s l2 and (rice or oryza or sativa)  
L3 12 L2 AND (RICE OR ORYZA OR SATIVA)

=> duplicate remove l3  
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L3  
L4 5 DUPLICATE REMOVE L3 (7 DUPLICATES REMOVED)

=> d l4 1-5 ti

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Cell proliferation-related polypeptides and encoding nucleic acids in rice and their uses for plant transformation

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Rice genes induced by stress and their products and their use in the improvement of stress tolerance in crop plants

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1  
TI Abiotic stress responsive polynucleotides and polypeptides from plants and methods of altering the stress responsiveness of a plant

L4 ANSWER 4 OF 5 MEDLINE on STN  
TI A network of rice genes associated with stress response and seed development.

L4 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 2  
TI Identification of rice (Oryza sativa) proteins linked to the cyclin-mediated regulation of the cell cycle.

=> d 14 1-5 bib

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2004:589680 CAPLUS  
DN 141:118359  
TI Cell proliferation-related polypeptides and encoding nucleic acids in rice and their uses for plant transformation  
IN Cooper, Bret  
PA Syngenta Participations A.-G., Switz.  
SO PCT Int. Appl., 408 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|--|------|----------|------------------|----------|
|      | -----  | ---- | -----    | -----            | -----    |
| PI   | WO 2004061122  | A2   | 20040722 | WO 2003-US41200  | 20031223 |
|      | WO 2004061122  | A3   | 20070118 |                  |          |
|      | W:   |      |          |                  |          |
|      | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                  |          |
|      | RW:  |      |          |                  |          |
|      | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |      |          |                  |          |
|      | CA 2511824   | A1   | 20040722 | CA 2003-2511824  | 20031223 |
|      | AU 2003303589  | A1   | 20040729 | AU 2003-303589   | 20031223 |
|      | AU 2003303589  | A2   | 20040729 |                  |          |
|      | EP 1576178   | A2   | 20050921 | EP 2003-808558   | 20031223 |
|      | R:   |      |          |                  |          |
|      | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |      |          |                  |          |
|      | CN 101018864   | A    | 20070815 | CN 2003-80107670 | 20031223 |
|      | US 2006253917  | A1   | 20061109 | US 2005-533232   | 20051122 |
| PRAI | US 2002-436565P  | P    | 20021226 |                  |          |
|      | WO 2003-US41200  | W    | 20031223 |                  |          |

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2004:589648 CAPLUS  
DN 141:135224  
TI Rice genes induced by stress and their products and their use in the improvement of stress tolerance in crop plants  
IN Cooper, Bret  
PA Syngenta Participations A.-G., Switz.  
SO PCT Int. Appl., 551 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

|  | PATENT NO. | KIND | DATE  | APPLICATION NO. | DATE  |
|--|------------|------|-------|-----------------|-------|
|  | -----      | ---- | ----- | -----           | ----- |

PI WO 2004061080 A2 20040722 WO 2003-US41098 20031223  
 WO 2004061080 A3 20041104  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,  
 NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,  
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,  
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 CA 2507868 A1 20040722 CA 2003-2507868 20031223  
 AU 2003299859 A1 20040729 AU 2003-299859 20031223  
 EP 1578971 A2 20050928 EP 2003-800133 20031223  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 CN 1922323 A 20070228 CN 2003-80107762 20031223  
 US 2006235215 A1 20061019 US 2006-533176 20060412  
 PRAI US 2002-436564P P 20021226  
 WO 2003-US41098 W 20031223

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1  
 AN 2003:539801 CAPLUS  
 DN 139:64476  
 TI Abiotic stress responsive polynucleotides and polypeptides from plants and  
 methods of altering the stress responsiveness of a plant  
 IN Kreps, Joel; Briggs, Steven P.; Cooper, Bret; Glazebrook, Jane;  
 Goff, Stephen A.; Katagiri, Fumiyaki; Moughamer, Todd; Provart, Nicholas;  
 Ricke, Darrell; Zhu, Tong  
 PA Syngenta Participations AG, Switz.  
 SO PCT Int. Appl., 177 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 11

|    | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|----|--|------|----------|-----------------|----------|
| PI | WO 2003008540  | A2   | 20030130 | WO 2002-XB19668 | 20020621 |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,<br>CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,<br>GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,<br>LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,<br>PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,<br>UA, UG, US, UZ, VN, YU, ZA, ZM, ZW |      |          |                 |          |
|    | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,<br>CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,<br>BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |      |          |                 |          |
|    | WO 2003008540  | A2   | 20030130 | WO 2002-US19668 | 20020621 |
|    | WO 2003008540  | A3   | 20031204 |                 |          |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,<br>CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,<br>GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,<br>LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,<br>PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,<br>UA, UG, US, UZ, VN, YU, ZA, ZM, ZW |      |          |                 |          |
|    | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,<br>KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,<br>GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,<br>GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
|    | US 2003135888  | A1   | 20030717 | US 2002-259165  | 20020926 |
|    | US 2004010815  | A1   | 20040115 | US 2002-259194  | 20020926 |

PRAI US 2001-300112P P 20010622  
US 2001-314662P P 20010824  
US 2001-325277P P 20010926  
US 2001-332132P P 20011121  
WO 2002-US19668 A 20020621  
US 2002-368327P P 20020327  
US 2002-370620P P 20020404  
US 2002-370743P P 20020404

L4 ANSWER 4 OF 5 MEDLINE on STN

AN 2003179508 MEDLINE

DN PubMed ID: 12684538

TI A network of rice genes associated with stress response and seed development.

AU Cooper Bret; Clarke Joseph D; Budworth Paul; Kreps Joel; Hutchison Don; Park Sylvia; Guimil Sonia; Dunn Molly; Luginbuhl Peter; Ellero Cinzia; Goff Stephen A; Glazebrook Jane

CS Torrey Mesa Research Institute, 3115 Merryfield Row, San Diego, CA 92121, USA.. bcooper912@worldnet.att.net

SO Proceedings of the National Academy of Sciences of the United States of America, (2003 Apr 15) Vol. 100, No. 8, pp. 4945-50. Electronic Publication: 2003-04-08.

Journal code: 7505876. ISSN: 0027-8424.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-AY224421; GENBANK-AY224422; GENBANK-AY224423; GENBANK-AY224424;  
GENBANK-AY224425; GENBANK-AY224426; GENBANK-AY224427; GENBANK-AY224428;  
GENBANK-AY224429; GENBANK-AY224430; GENBANK-AY224431; GENBANK-AY224432;  
GENBANK-AY224433; GENBANK-AY224434; GENBANK-AY224435; GENBANK-AY224436;  
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GENBANK-AY224505; GENBANK-AY224506; GENBANK-AY224507; GENBANK-AY224508;  
GENBANK-AY224509; GENBANK-AY224510

EM 200306

ED Entered STN: 17 Apr 2003

Last Updated on STN: 18 Jun 2003

Entered Medline: 17 Jun 2003

L4 ANSWER 5 OF 5 MEDLINE on STN

DUPLICATE 2

AN 2004049571 MEDLINE

DN PubMed ID: 14750518

TI Identification of rice (Oryza sativa) proteins linked to the cyclin-mediated regulation of the cell cycle.

AU Cooper Bret; Hutchison Don; Park Sylvia; Guimil Sonia; Luginbuhl Peter; Ellero Cinzia; Goff Stephen A; Glazebrook Jane

CS Torrey Mesa Research Institute, 3115 Merryfield Row, San Diego, CA 92121,  
USA.. bcooper912@worldnet.att.net

SO Plant molecular biology, (2003 Oct) Vol. 53, No. 3, pp. 273-9.  
Journal code: 9106343. ISSN: 0167-4412.

CY Netherlands

DT (COMPARATIVE STUDY)  
Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-AY224516; GENBANK-AY224517; GENBANK-AY224518; GENBANK-AY224519;  
GENBANK-AY224520; GENBANK-AY224521; GENBANK-AY224522; GENBANK-AY224523;  
GENBANK-AY224524; GENBANK-AY224525; GENBANK-AY224526; GENBANK-AY224527;  
GENBANK-AY224528; GENBANK-AY224529; GENBANK-AY224530; GENBANK-AY224531;  
GENBANK-AY224532; GENBANK-AY224533; GENBANK-AY224534; GENBANK-AY224535;  
GENBANK-AY224536; GENBANK-AY224537; GENBANK-AY224538; GENBANK-AY224539;  
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GENBANK-AY224568; GENBANK-AY224569; GENBANK-AY224570; GENBANK-AY224571;  
GENBANK-AY224572; GENBANK-AY224573; GENBANK-AY224574; GENBANK-AY224575;  
GENBANK-AY224576; GENBANK-AY224577; GENBANK-AY224578; GENBANK-AY224579;  
GENBANK-AY224580; GENBANK-AY224581; GENBANK-AY224582; GENBANK-AY224583;  
GENBANK-AY224584; GENBANK-AY224585; GENBANK-AY224586; GENBANK-AY224587;  
GENBANK-AY224588; GENBANK-AY224589

EM 200403

ED Entered STN: 31 Jan 2004  
Last Updated on STN: 20 Mar 2004  
Entered Medline: 19 Mar 2004

=> s osgf14 or osgf14-c or osgf14(w)c

L5 4 OSGF14 OR OSGF14-C OR OSGF14(W) C

=> s l5 not l4

L6 4 L5 NOT L4

=> duplicate remove l6

DUPLICATE PREFERENCE IS 'MEDLINE, CABA, CAPLUS, BIOSIS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L6

L7 1 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)

=> d l7 bib

L7 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1

AN 2007348883 MEDLINE

DN PubMed ID: 17562286

TI Molecular analysis and expression patterns of the 14-3-3 gene family from  
Oryza sativa.

AU Yao Yuan; Du Ying; Jiang Lin; Liu Jin-Yuan

CS Laboratory of Molecular Biology, Department of Biological Sciences and  
Biotechnology, Tsinghua University, Beijing, P. R. China.

SO Journal of biochemistry and molecular biology, (2007 May 31) Vol. 40, No.  
3, pp. 349-57.  
Journal code: 9702084. ISSN: 1225-8687.

CY Korea (South)

DT Journal; Article; (JOURNAL ARTICLE)  
(RESEARCH SUPPORT, NON-U.S. GOV'T)

LA English  
FS Priority Journals  
EM 200709  
ED Entered STN: 13 Jun 2007  
Last Updated on STN: 26 Sep 2007  
Entered Medline: 25 Sep 2007

=> d 17 kwic

L7 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1  
AB . . . of the genome database. Comparisons of deduced amino acid sequences reveal a high degree of identity among members of the OsGF14 family and reported Arabidopsis 14-3-3 proteins. A phylogenetic study indicates that OsGF14s contain both epsilon and non-epsilon forms, which is also confirmed by a structural analysis of OsGF14 genes. Furthermore, transcripts of OsGF14b, OsGF14c, OsGF14d, OsGF14e, OsGF14f and OsGF14g were detected in rice tissues. Their different expression patterns, . . . conditions and regulated by multiple signaling pathways, but also suggests that functional similarity and diversity coexist among the members of OsGF14 family.

=> s GTP(w)cyclohydrolase(w)II/3,4-dihydroxy-2-butanone(w)4-phosphate(w)synthase  
'4-DIHYDROXY-2-BUTANONE' IS NOT A VALID FIELD CODE  
For a list of field codes for the current file, enter "HELP SFIELDS"  
at an arrow prompt (=>).

=> GTP(w)cyclohydrolase II(s)synthase  
GTP(W)CYCLOHYDROLASE IS NOT A RECOGNIZED COMMAND  
The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s GTP(w)cyclohydrolase II(s)synthase  
L8 50 GTP(W) CYCLOHYDROLASE II(S) SYNTHASE

=> s l8 and (plant or plants)  
L9 13 L8 AND (PLANT OR PLANTS)

=> duplicate remove l9  
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L9  
L10 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)

=> d l10 1-7 ti

L10 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1  
TI Protein and cDNA sequences of a novel corn guanosine triphosphate cyclohydrolase II/L-3,4-dihydroxy-2-butanone-4-phosphate synthase

L10 ANSWER 2 OF 7 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Candida famata (Debaryomyces hansenii) DNA sequences containing genes involved in riboflavin synthesis.

L10 ANSWER 3 OF 7 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Riboflavin biosynthesis as a target for antimicrobial chemotherapy.

L10 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN  
TI in vitro assays for inhibitors of GTP cyclohydrolase II involved in riboflavin biosynthesis

L10 ANSWER 5 OF 7 MEDLINE on STN DUPLICATE 2  
 TI Biosynthesis of riboflavin in plants. The ribA gene of Arabidopsis thaliana specifies a bifunctional GTP cyclohydrolase II/3,4-dihydroxy-2-butanone 4-phosphate synthase.

L10 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Arabidopsis thaliana genes for enzymes of riboflavin biosynthesis and the development of novel herbicides

L10 ANSWER 7 OF 7 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Biosynthesis of riboflavin: Cloning, sequencing, mapping, and hyperexpression of the genes ribA coding for GTP cyclohydrolase II and ribC coding for riboflavin synthase of Escherichia coli.

=> d l10 1, 5, 6 bib

L10 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1  
 AN 2004:33995 CAPLUS  
 DN 140:89897  
 TI Protein and cDNA sequences of a novel corn guanosine triphosphate cyclohydrolase II/L-3,4-dihydroxy-2-butanone-4-phosphate synthase  
 IN Allen, Stephen M.; Kinney, Anthony J.; Rafalski, J. Antoni; Orozco, Emil M., Jr.; Miao, Guo-hua; Famodu, Omolayo O.; Lee, Jian-ming; Lohman, Karin N.; Rendina, Alan R.; Sakai, Hajime; Weng, Zude; Caimi, Perry G.; Fang, Yiwen; Shen, Jennie Bih-jien; Zoughi, Ilham L.; Anderson, Shawn L.; Shi, Jinrui; Lu, Guihua; Helentjaris, Timothy G.; Li, Chun Ping  
 PA E. I. Du Pont de Nemours & Co., USA; Pioneer Hi-Bred International, Inc.  
 SO U.S., 186 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

|      | PATENT NO.      | KIND | DATE     | APPLICATION NO. | DATE     |
|------|-----------------|------|----------|-----------------|----------|
|      | -----           | ---  | -----    | -----           | -----    |
| PI   | US 6677502      | B1   | 20040113 | US 2000-614912  | 20000712 |
| PRAI | US 1999-143401P | P    | 19990712 |                 |          |
|      | US 1999-143412P | P    | 19990712 |                 |          |
|      | US 1999-146650P | P    | 19990730 |                 |          |
|      | US 1999-170906P | P    | 19991215 |                 |          |
|      | US 1999-172946P | P    | 19991221 |                 |          |
|      | US 1999-172959P | P    | 19991221 |                 |          |

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 7 MEDLINE on STN DUPLICATE 2  
 AN 2000244564 MEDLINE  
 DN PubMed ID: 10783978  
 TI Biosynthesis of riboflavin in plants. The ribA gene of Arabidopsis thaliana specifies a bifunctional GTP cyclohydrolase II/3,4-dihydroxy-2-butanone 4-phosphate synthase.

AU Herz S; Eberhardt S; Bacher A  
 CS Lehrstuhl fur Organische Chemie und Biochemie, Technische Universitat Munchen, Garching, Germany.  
 SO Phytochemistry, (2000 Apr) Vol. 53, No. 7, pp. 723-31.  
 Journal code: 0151434. ISSN: 0031-9422.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)



(RESEARCH SUPPORT, NON-U.S. GOV'T)  
 LA English  
 FS Priority Journals  
 EM 200007  
 ED Entered STN: 10 Aug 2000  
 Last Updated on STN: 10 Aug 2000  
 Entered Medline: 25 Jul 2000

L10 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1999:495401 CAPLUS  
 DN 131:127762  
 TI Arabidopsis thaliana genes for enzymes of riboflavin biosynthesis and the development of novel herbicides  
 IN Guyer, Charles David; Johnson, Marie Ann; Volrath, Sandra Lynn; Brunn, Sandra Alice; Ward, Eric Russell  
 PA Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.  
 SO PCT Int. Appl., 78 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

|      | PATENT NO.      | KIND   | DATE     | APPLICATION NO. | DATE     |
|------|-----------------|--|----------|-----------------|----------|
| PI   | WO 9938986      | A2   | 19990805 | WO 1999-EP556   | 19990128 |
|      | WO 9938986      | A3   | 19990923 |                 |          |
|      | W:              | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW |          |                 |          |
|      | RW:             | GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |          |                 |          |
|      | CA 2318522      | A1   | 19990805 | CA 1999-2318522 | 19990128 |
|      | AU 9927202      | A  | 19990816 | AU 1999-27202   | 19990128 |
|      | AU 744487       | B2   | 20020228 |                 |          |
|      | EP 1051504      | A2   | 20001115 | EP 1999-907444  | 19990128 |
|      | R:              | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI   |          |                 |          |
|      | BR 9908213      | A  | 20001128 | BR 1999-8213    | 19990128 |
|      | TR 200002193    | T2   | 20010521 | TR 2000-2193    | 19990128 |
|      | HU 2001001278   | A2   | 20010828 | HU 2001-1278    | 19990128 |
|      | HU 2001001278   | A3   | 20030428 |                 |          |
|      | JP 2002501753   | T  | 20020122 | JP 2000-529444  | 19990128 |
|      | ZA 9900716      | A  | 19990730 | ZA 1999-716     | 19990129 |
|      | IN 2000CN00209  | A  | 20050520 | IN 2000-CN209   | 20000725 |
|      | MX 2000PA07432  | A  | 20010219 | MX 2000-PA7432  | 20000728 |
| PRAI | US 1998-109810P | P  | 19980130 |                 |          |
|      | WO 1999-EP556   | W  | 19990128 |                 |          |

=> d his

(FILE 'HOME' ENTERED AT 14:56:41 ON 26 MAR 2008)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:57:24 ON 26 MAR 2008

L1 4668 S (COOPER, B? OR COOPER B?)/AU  
 L2 12 S L1 AND TWO(W)HYBRID  
 L3 12 S L2 AND (RICE OR ORYZA OR SATIVA)  
 L4 5 DUPLICATE REMOVE L3 (7 DUPLICATES REMOVED)

L5 4 S OSGF14 OR OSGF14-C OR OSGF14(W)C  
 L6 4 S L5 NOT L4  
 L7 1 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)  
 L8 50 S GTP(W)CYCLOHYDROLASE II(S)SYNTHASE  
 L9 13 S L8 AND (PLANT OR PLANTS)  
 L10 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)

=> s riba and (plant or plants)  
 L11 37 RIBA AND (PLANT OR PLANTS)

=> s l11 not l9  
 L12 28 L11 NOT L9

=> duplicate remove l12  
 DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'  
 KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
 PROCESSING COMPLETED FOR L12  
 L13 20 DUPLICATE REMOVE L12 (8 DUPLICATES REMOVED)

=> d l13 1-10 ti

L13 ANSWER 1 OF 20 CABA COPYRIGHT 2008 CABI on STN  
 TI Outstanding behaviour of different self rooted walnut cultivars (*Juglans* spp.) at four locations with different soil conditions.

L13 ANSWER 2 OF 20 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 1  
 TI Co-inoculation effects of phosphate solubilizing microorganisms and *Glomus fasciculatum* on green gram-*Bradyrhizobium* symbiosis.

L13 ANSWER 3 OF 20 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI A novel Nudix hydrolase for oxidized purine nucleoside triphosphates encoded by ORFYLR151c (PCD1 gene) in *Saccharomyces cerevisiae*.

L13 ANSWER 4 OF 20 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Addition to flora mesoamericana: A new record of *Thelypteris* (*Thelypteridaceae*) for Chiapas, Mexico.

L13 ANSWER 5 OF 20 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 2  
 TI Activity of octylthiotrifluoropropan-2-one, a potent esterase inhibitor, on growth, development, and intraspecific communication in *Spodoptera littoralis* and *Sesamia nonagrioides*.

L13 ANSWER 6 OF 20 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 3  
 TI Replica Immunoblot Assay (RIBA): a new method for quantification and specific determination of *Rhizobium* and *Bradyrhizobium* strains directly in legume nodules.

L13 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Analysis of the chromosome sequence of the legume symbiont *Sinorhizobium meliloti* strain 1021

L13 ANSWER 8 OF 20 MEDLINE on STN  
 TI Riboflavin synthesis genes *ribE*, *ribB*, *ribH*, *ribA* reside in the *lux* operon of *Photobacterium leiognathi*.

L13 ANSWER 9 OF 20 CABA COPYRIGHT 2008 CABI on STN  
 TI Effect of potassium and magnesium fertilization on yield and nutrient content of rice crop grown on artificial siltation soil.

L13 ANSWER 10 OF 20 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI In memoriam: Ramon Riba y Nava Esparza.

=> d 113 11-20 ti

- L13 ANSWER 11 OF 20 MEDLINE on STN DUPLICATE 4  
TI Hemolytic properties and riboflavin synthesis of *Helicobacter pylori*: cloning and functional characterization of the *ribA* gene encoding GTP-cyclohydrolase II that confers hemolytic activity to *Escherichia coli*.
- L13 ANSWER 12 OF 20 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Reduced near-UV sensitivity in *Phycomyces* mutants affected in the biosynthesis of 6,7-dimethyl-8-ribityllumazine.
- L13 ANSWER 13 OF 20 CABA COPYRIGHT 2008 CABI on STN  
TI Variety: 'Riba' syn. 'CPI 23944'. Application number 94/151.
- L13 ANSWER 14 OF 20 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI The presence of hepatitis C virus (HCV) antibody in human immunodeficiency virus-positive hemophilic men undergoing HCV "seroreversion".
- L13 ANSWER 15 OF 20 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Antibodies to hepatitis C virus and hepatitis C virus RNA in Chinese blood donors determined by ELISA, recombinant immunoblot assay and polymerase chain reaction.
- L13 ANSWER 16 OF 20 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI A GENETIC MAP OF PHYCOMYCES-BLAKESLEEANUS.
- L13 ANSWER 17 OF 20 CABA COPYRIGHT 2008 CABI on STN  
TI [Histochemical and ultrastructural characteristics of erythrocytes in some sea teleosts].  
Histokemijske i ultrastrukturalne karakteristike eritrocita u nekih morskih riba kostunjaca.
- L13 ANSWER 18 OF 20 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2008) on STN DUPLICATE 5  
TI Study of the parasitofauna of freshwater fishes from fish ponds of Bosnia and Herzegovina. I. Cyprinid fish ponds. A. Monogenous trematodes. 3. Monogenous trematodes of plant-eating fish.  
Istrazivanje parazitofaune riba slatkovodnih ribnjaka Bosne i Hercegovine. I. Ciprinidni ribnjaci A. Monogeni trematodi. 3. (Monogeni trematodi riba biljojeda).
- L13 ANSWER 19 OF 20 CABA COPYRIGHT 2008 CABI on STN  
TI [Some theoretical and practical problems in rearing fish of the family Mugilidae].  
O nekim teoretskim i prakticnim problemima uzgoja riba iz obitelji Mugilidae.
- L13 ANSWER 20 OF 20 CABA COPYRIGHT 2008 CABI on STN  
TI [Efficiency of herbivorous fish for aquatic plant control in hydroameliorative channels].  
Efikasnost biljojednih riba u suzbijanju akvaticnog bilja u hidromeliorativnim kanalima.

=> d 113 12 bib

L13 ANSWER 12 OF 20 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
STN  
AN 1995:461529 BIOSIS  
DN PREV199598475829  
TI Reduced near-UV sensitivity in *Phycomyces* mutants affected in the  
biosynthesis of 6,7-dimethyl-8-ribityllumazine.  
AU Tillmanns, Sascha; Senger, Horst; Galland, Paul [Reprint author]  
CS Fachbereich Biol./Bot., Philipps-Univ., Lahnberge, D-35032 Marburg,  
Germany  
SO Photochemistry and Photobiology, (1995) Vol. 62, No. 3, pp. 588-595.  
CODEN: PHCBAP. ISSN: 0031-8655.  
DT Article  
LA English  
ED Entered STN: 27 Oct 1995  
Last Updated on STN: 14 Dec 1995

=> s riboflavin and stress

L14 768 RIBOFLAVIN AND STRESS

=> s riboflavin(s)stress

L15 290 RIBOFLAVIN(S) STRESS

=> s 115 and (plant or plants)

L16 57 L15 AND (PLANT OR PLANTS)

=> duplicate remove 116

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L16

L17 36 DUPLICATE REMOVE L16 (21 DUPLICATES REMOVED)

=> d 117 1-10 ti

L17 ANSWER 1 OF 36 MEDLINE on STN DUPLICATE 1  
TI Structural and kinetic properties of lumazine synthase isoenzymes in the  
order Rhizobiales.

L17 ANSWER 2 OF 36 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Growth stress triggers riboflavin overproduction in  
Ashbya gossypii.

L17 ANSWER 3 OF 36 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Mutations and environmental factors affecting regulation of  
riboflavin synthesis and iron assimilation also cause oxidative  
stress in the yeast *Pichia guilliermondii*.

L17 ANSWER 4 OF 36 MEDLINE on STN DUPLICATE 2  
TI Iron assimilation and transcription factor controlled synthesis of  
riboflavin in plants.

L17 ANSWER 5 OF 36 CABA COPYRIGHT 2008 CABI on STN  
TI Effect of chemical-sand priming on seed vigor of super sweet corn and  
their physiological changes.

L17 ANSWER 6 OF 36 MEDLINE on STN DUPLICATE 3  
TI In vitro microspore selection in maize anther culture with  
oxidative-stress stimulators.

L17 ANSWER 7 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI Photodynamic effects of methionine-riboflavin mixture on antioxidant proteins.

L17 ANSWER 8 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI Antioxidant and micronutrient quality of fruit and root vegetables from the Indian subcontinent and their comparative performance with green leafy vegetables and fruits.

L17 ANSWER 9 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI Restraint stress induced changes and their modification by *Spirulina platensis* in albino rats: an experimental study.

L17 ANSWER 10 OF 36 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Effects of ROS progenitors on the sporophytic development of maize microspores.

=> d 117 2 bib

L17 ANSWER 2 OF 36 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 AN 2007:561852 BIOSIS  
 DN PREV200700558692  
 TI Growth stress triggers riboflavin overproduction in *Ashbya gossypii*.  
 AU Schloesser, Thomas; Wiesenburg, Andreas; Gaetgens, Cornelia; Funke, Andreas; Viets, Ulrike; Vijayalakshmi, Swaminathan; Nieland, Susanne; Stahmann, K.-Peter [Reprint Author]  
 CS Fachhochschule Lausitz, Fachbereich Bio Chem and Verfahrenstechnik, Grossenhainer Str 57, D-01958 Senftenberg, Germany  
 stahmann@fh-lausitz.de  
 SO Applied Microbiology and Biotechnology, (SEP 2007) Vol. 76, No. 3, pp. 569-578.  
 CODEN: AMBIDG. ISSN: 0175-7598.  
 DT Article  
 LA English  
 ED Entered STN: 31 Oct 2007  
 Last Updated on STN: 31 Oct 2007

=> d 117 11-20 ti

L17 ANSWER 11 OF 36 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 4  
 TI Plant adaptation to oil stress.

L17 ANSWER 12 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI [Effect of foliar injection of juglone on expression of superoxide dismutase in two cultivars of *Musa* spp].  
 Efecto de la inyección foliar de juglone sobre el sistema antioxidante de las Superoxido dismutasas en dos cultivares de *Musa* spp.

L17 ANSWER 13 OF 36 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Riboflavin deficiency impairs oxidative folding of interleukin-2, triggering unfolded protein response in Jurkat cells.

L17 ANSWER 14 OF 36 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Riboflavin (vitamin B2) treatments counteract the adverse effects of salinity on growth and some relevant physiological responses of *Hibiscus sabdariffa* L. seedlings

L17 ANSWER 15 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI Riboflavin, overproduced during sporulation of *Ashbya gossypii*, protects its hyaline spores against ultraviolet light.

L17 ANSWER 16 OF 36 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Iron resupply-mediated deactivation of Fe-deficiency stress responses in roots of sugar beet

L17 ANSWER 17 OF 36 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2008) on STN DUPLICATE 5  
 TI Taxonomic distribution of dicotyledonous species capable of root excretion of riboflavin under iron deficiency.

L17 ANSWER 18 OF 36 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Oversynthesis of riboflavin by yeast *Pichia guilliermondii* in response to oxidative stress.

L17 ANSWER 19 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI [Mycotoxins and mycotoxicosis in poultry].  
 Micotoxinas e micotoxicoses na avicultura.

L17 ANSWER 20 OF 36 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2008) on STN DUPLICATE 6  
 TI Iron-deficiency stress responses of a chlorosis-susceptible and a chlorosis-resistant cultivar of muskmelon as related to root riboflavin excretion.

=> d 117 14,18 bib

L17 ANSWER 14 OF 36 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2003:435737 CAPLUS  
 DN 140:2919  
 TI Riboflavin (vitamin B2) treatments counteract the adverse effects of salinity on growth and some relevant physiological responses of *Hibiscus sabdariffa* L. seedlings  
 AU Hassanein, A. M.; Azooz, H. M.; Faheed, F. A.  
 CS Botany Department, Faculty of Science, South Valley University, Sohag, 82524, Egypt  
 SO Bulletin of the Faculty of Science, Assiut University, D: Botany (2002), 31(2), 295-303  
 CODEN: BFSBE9  
 PB Assiut University  
 DT Journal  
 LA English  
 RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 18 OF 36 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 AN 2001:113840 BIOSIS  
 DN PREV200100113840  
 TI Oversynthesis of riboflavin by yeast *Pichia guilliermondii* in response to oxidative stress.  
 AU Protchenko, O. V. [Reprint author]; Boretsky, Yu. R. [Reprint author]; Romanyuk, T. M. [Reprint author]; Fedorovych, D. V. [Reprint author]  
 CS Division of regulatory cell system, O.V.Palladin Institute of

Biochemistry, National Academy of Science of Ukraine, Lviv, Ukraine  
prot@biochem.lviv.ua

SO Ukrainskii Biokhimicheskii Zhurnal, (2000) Vol. 72, No. 2, pp. 19-23.  
print.

CODEN: UBZHD4. ISSN: 0201-8470.

DT Article

LA English

ED Entered STN: 7 Mar 2001

Last Updated on STN: 15 Feb 2002

=> d 117 21-30 ti

L17 ANSWER 21 OF 36 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 7

TI Involvement of singlet oxygen in the breakdown of photosynthetic pigments  
in the leaves of rice seedlings exposed to osmotic stress and light.

L17 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2008 ACS on STN

TI Physiological responses of plant root to environmental  
stress. III. Difference in riboflavin secretion  
phenomenon as a result of iron-deficiency among plant species

L17 ANSWER 23 OF 36 CABA COPYRIGHT 2008 CABI on STN

TI Effects of root temperature on iron stress responses.

L17 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2008 ACS on STN

TI Physiological responses of plant root to environmental  
stress. II. The relation between riboflavin secretion as  
a results of iron deficiency and ferric reducing system on the  
plant root

L17 ANSWER 25 OF 36 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 8

TI Ferredoxin and flavodoxin analysis in tobacco in response to iron stress.

L17 ANSWER 26 OF 36 AGRICOLA Compiled and distributed by the National  
Agricultural Library of the Department of Agriculture of the United States  
of America. It contains copyrighted materials. All rights reserved.  
(2008) on STN DUPLICATE 9

TI Iron stress and salt stress responses of lettuce (*Lactuca sativa* L.).

L17 ANSWER 27 OF 36 CAPLUS COPYRIGHT 2008 ACS on STN

TI Physiological responses of plant root to environmental stress.  
I. Analysis of iron-deficiency response systems on the plant  
root, using the hairy root

L17 ANSWER 28 OF 36 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
STN

TI IDENTIFICATION OF THE PIGMENT RESPONSIBLE FOR THE BLUE FLUORESCENCE BAND  
IN THE LASER INDUCED FLUORESCENCE LIF SPECTRA OF GREEN PLANTS  
AND THE POTENTIAL USE OF THIS BAND IN REMOTELY ESTIMATING RATES OF  
PHOTOSYNTHESIS.

L17 ANSWER 29 OF 36 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 10

TI Responses of pepper (*Capsicum annuum*) plants to iron deficiency:  
solution pH and riboflavin.

L17 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2008 ACS on STN

TI Sugar beet responses to iron nutrition and stress

=> d 117 31-36 ti

L17 ANSWER 31 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI Physiological responses associated with Fe-deficiency stress in different plant species.

L17 ANSWER 32 OF 36 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Riboflavin excretion from roots of iron-stressed and reciprocally grafted tobacco and tomato plants

L17 ANSWER 33 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI Excretion of riboflavin by iron deficient plants.

L17 ANSWER 34 OF 36 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 11  
 TI Application of high performance liquid chromatography in the characterization of iron stress response.

L17 ANSWER 35 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI Dehydrated products with high protein contents for athletes.

L17 ANSWER 36 OF 36 CABA COPYRIGHT 2008 CABI on STN  
 TI Iron uptake by sunflower plants under sterile and non-sterile conditions.

=> s riboflavin(w)biosynthesis(s)(plant or plants)  
 L18 36 RIBOFLAVIN(W) BIOSYNTHESIS(S) (PLANT OR PLANTS)

=> d his

(FILE 'HOME' ENTERED AT 14:56:41 ON 26 MAR 2008)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:57:24 ON 26 MAR 2008

L1 4668 S (COOPER, B? OR COOPER B?)/AU  
 L2 12 S L1 AND TWO(W)HYBRID  
 L3 12 S L2 AND (RICE OR ORYZA OR SATIVA)  
 L4 5 DUPLICATE REMOVE L3 (7 DUPLICATES REMOVED)  
 L5 4 S OSGF14 OR OSGF14-C OR OSGF14(W)C  
 L6 4 S L5 NOT L4  
 L7 1 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)  
 L8 50 S GTP(W)CYCLOHYDROLASE II(S)SYNTHASE  
 L9 13 S L8 AND (PLANT OR PLANTS)  
 L10 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)  
 L11 37 S RIBA AND (PLANT OR PLANTS)  
 L12 28 S L11 NOT L9  
 L13 20 DUPLICATE REMOVE L12 (8 DUPLICATES REMOVED)  
 L14 768 S RIBOFLAVIN AND STRESS  
 L15 290 S RIBOFLAVIN(S)STRESS  
 L16 57 S L15 AND (PLANT OR PLANTS)  
 L17 36 DUPLICATE REMOVE L16 (21 DUPLICATES REMOVED)  
 L18 36 S RIBOFLAVIN(W)BIOSYNTHESIS(S) (PLANT OR PLANTS)

=> s l18 not l3  
 L19 36 L18 NOT L3

=> s l19 not l9  
 L20 33 L19 NOT L9

=> s l20 not l11  
 L21 33 L20 NOT L11

=> s l21 not l15  
 L22 33 L21 NOT L15



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=> duplicate remove l22
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L22
L23          14 DUPLICATE REMOVE L22 (19 DUPLICATES REMOVED)
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=> d l23 1-10 ti
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L23 ANSWER 1 OF 14 MEDLINE on STN DUPLICATE 1
TI Lumazine synthase from Candida albicans as an anti-fungal target enzyme:
structural and biochemical basis for drug design.

L23 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Luminol and related metabolites secreted by nodulating bacteria as
photosynthesis and growth promoting agents for plants

L23 ANSWER 3 OF 14 CABA COPYRIGHT 2008 CABI on STN
TI Evolution of vitamin B2 biosynthesis: 6,7-dimethyl-8-ribityllumazine
synthases of Brucella.

L23 ANSWER 4 OF 14 MEDLINE on STN DUPLICATE 2
TI Structural and thermodynamic insights into the binding mode of five novel
inhibitors of lumazine synthase from Mycobacterium tuberculosis.

L23 ANSWER 5 OF 14 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 3
TI Biosynthesis of vitamin B2 in plants.

L23 ANSWER 6 OF 14 MEDLINE on STN DUPLICATE 4
TI Crystallographic studies on decameric Brucella spp. Lumazine synthase: a
novel quaternary arrangement evolved for a new function?.

L23 ANSWER 7 OF 14 MEDLINE on STN DUPLICATE 5
TI Evolution of vitamin B2 biosynthesis: structural and functional similarity
between pyrimidine deaminases of eubacterial and plant origin.

L23 ANSWER 8 OF 14 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2008) on STN DUPLICATE 6
TI A tomato enzyme catalyzing the phosphorylation of 3,4-dihydroxy-2-
butanone.

L23 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
TI Lumazine synthase and riboflavin synthase from plants and fungi

L23 ANSWER 10 OF 14 MEDLINE on STN DUPLICATE 7
TI Plant riboflavin biosynthesis. Cloning,
chloroplast localization, expression, purification, and partial
characterization of spinach lumazine synthase.
```

```
=> d l23 5, 7, 8, 9, 10 bib
```

```
L23 ANSWER 5 OF 14 CABA COPYRIGHT 2008 CABI on STN DUPLICATE 3
AN 2006:184927 CABA
DN 20063174140
TI Biosynthesis of vitamin B2 in plants
AU Fischer, M.; Bacher, A.
CS Lehrstuhl für Organische Chemie und Biochemie, Technische Universität
München, Lichtenbergstr. 4, D-85747 Garching, Germany.
markus.fischer@ch.tum.de
```

SO Physiologia Plantarum, (2006) Vol. 126, No. 3, pp. 304-318. many ref.  
 Publisher: Blackwell Publishing. Copenhagen  
 ISSN: 0031-9317  
 URL: <http://www.blackwell-synergy.com/servlet/useragent?func=showIssues&code=ppl>  
 DOI: 10.1111/j.1399-3054.2006.00607.x

CY Denmark  
 DT Journal  
 LA English  
 ED Entered STN: 3 Nov 2006  
 Last Updated on STN: 3 Nov 2006

L23 ANSWER 7 OF 14 MEDLINE on STN DUPLICATE 5  
 AN 2004417010 MEDLINE  
 DN PubMed ID: 15208317  
 TI Evolution of vitamin B2 biosynthesis: structural and functional similarity between pyrimidine deaminases of eubacterial and plant origin.  
 AU Fischer Markus; Romisch Werner; Saller Sabine; Illarionov Boris; Richter Gerald; Rohdich Felix; Eisenreich Wolfgang; Bacher Adelbert  
 CS Lehrstuhl für Organische Chemie und Biochemie, Technische Universität München, Lichtenbergstrasse 4, Garching D-85747, Germany.. markus.fischer@ch.tum.de  
 SO The Journal of biological chemistry, (2004 Aug 27) Vol. 279, No. 35, pp. 36299-308. Electronic Publication: 2004-06-18.  
 Journal code: 2985121R. ISSN: 0021-9258.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 (RESEARCH SUPPORT, NON-U.S. GOV'T)  
 LA English  
 FS Priority Journals  
 OS GENBANK-AY456384  
 EM 200410  
 ED Entered STN: 24 Aug 2004  
 Last Updated on STN: 7 Oct 2004  
 Entered Medline: 6 Oct 2004

L23 ANSWER 8 OF 14 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.  
 (2008) on STN DUPLICATE 6  
 AN 2003:7002 AGRICOLA  
 DN IND23300632  
 TI A tomato enzyme catalyzing the phosphorylation of 3,4-dihydroxy-2-butanone.  
 AU Herz, S.; Kis, K.; Bacher, A.; Rohdich, F.  
 AV DNAL (450 P5622)  
 SO Phytochemistry, May 2002. Vol. 60, No. 1. p. 3-11  
 Publisher: Oxford : Elsevier Science Ltd.  
 CODEN: PYTCAS; ISSN: 0031-9422  
 NTE Includes references  
 CY England; United Kingdom  
 DT Article  
 FS Non-U.S. Imprint other than FAO  
 LA English

L23 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2000:376524 CAPLUS  
 DN 133:39877  
 TI Lumazine synthase and riboflavin synthase from plants and fungi  
 IN Vitanen, Paul Veikko; Jordan, Douglas Brian; Bacot, Karen Onley  
 PA E. I. Du Pont de Nemours & Co., USA  
 SO Jpn. Kokai Tokkyo Koho, 58 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
|      | -----          | ---- | -----    | -----           | -----    |
| PI   | JP 2000152791  | A    | 20000606 | JP 1998-336558  | 19981111 |
| PRAI | JP 1998-336558 |      | 19981111 |                 |          |

L23 ANSWER 10 OF 14 MEDLINE on STN DUPLICATE 7  
AN 1999348358 MEDLINE  
DN PubMed ID: 10419541  
TI Plant riboflavin biosynthesis. Cloning,  
chloroplast localization, expression, purification, and partial  
characterization of spinach lumazine synthase.  
AU Jordan D B; Bacot K O; Carlson T J; Kessel M; Viitanen P V  
CS E. I. DuPont de Nemours Agricultural Products, Stine-Haskell Research  
Center, Newark, Delaware 19714, USA.  
SO The Journal of biological chemistry, (1999 Jul 30) Vol. 274, No. 31, pp.  
22114-21.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-AF147203; GENBANK-AF148648; GENBANK-AF148649  
EM 199908  
ED Entered STN: 27 Aug 1999  
Last Updated on STN: 27 Aug 1999  
Entered Medline: 19 Aug 1999

=> d 123 11-14 ti

L23 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Riboflavin biosynthetic enzymes

L23 ANSWER 12 OF 14 CABA COPYRIGHT 2008 CABI on STN  
TI Isolation of cDNAs encoding GTP cyclohydrolase II from Arabidopsis  
thaliana.

L23 ANSWER 13 OF 14 CABA COPYRIGHT 2008 CABI on STN  
TI [Riboflavin from xylose utilizing Candida guilliermondii].  
Obtencao de riboflavina a partir de xilose, utilizando Candida  
guilliermondii.

L23 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Dynamics of the biosynthesis of riboflavin in developing soybean seed

=> d 123 11, 12 14 bib

L23 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2000:283393 CAPLUS  
DN 133:101159  
TI Riboflavin biosynthetic enzymes  
AU Jordan, Douglas B.; Bacot, Karen O.; Carlson, Thomas J.; Picollelli,  
Michael P.; Wawrzak, Zdzislaw; Kessel, Martin; Viitanen, Paul V.  
CS Stine-Haskell Research Center, E. I. DuPont de Nemours and Co., Newark,  
DE, 19714, USA  
SO Photosynthesis: Mechanisms and Effects, Proceedings of the International  
Congress on Photosynthesis, 11th, Budapest, Aug. 17-22, 1998 (1998),

Volume 5, 3637-3640. Editor(s): Garab, Gyozo. Publisher: Kluwer Academic Publishers, Dordrecht, Neth.  
CODEN: 68VVAS

DT Conference; General Review

LA English

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 12 OF 14 CABA COPYRIGHT 2008 CABI on STN

AN 96:25108 CABA

DN 19961600947

TI Isolation of cDNAs encoding GTP cyclohydrolase II from Arabidopsis thaliana

AU Kobayashi, M.; Sugiyama, M.; Yamamoto, K.

CS Biological Institute, Faculty of Science, Tohoku University, Sendai 980-77, Japan.

SO Gene, (1995) Vol. 160, No. 2, pp. 303-304. 8 ref.

ISSN: 0378-1119

DT Journal

LA English

ED Entered STN: 16 Feb 1996

Last Updated on STN: 16 Feb 1996

L23 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1985:520123 CAPLUS

DN 103:120123

OREF 103:19165a,19168a

TI Dynamics of the biosynthesis of riboflavin in developing soybean seed

AU Vedralina-Dragojevic, I.; Momirovic-Culjat, J.; Balint, L.

CS Fac. Pharm. Biochem., Univ. Zagreb, Zagreb, 41000, Yugoslavia

SO Zeitschrift fuer Acker- und Pflanzenbau (1985), 154(2), 73-81

CODEN: ZAPFAR; ISSN: 0044-2151

DT Journal

LA English

=> d his

(FILE 'HOME' ENTERED AT 14:56:41 ON 26 MAR 2008)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:57:24 ON 26 MAR 2008

L1 4668 S (COOPER, B? OR COOPER B?)/AU

L2 12 S L1 AND TWO(W)HYBRID

L3 12 S L2 AND (RICE OR ORYZA OR SATIVA)

L4 5 DUPLICATE REMOVE L3 (7 DUPLICATES REMOVED)

L5 4 S OSGF14 OR OSGF14-C OR OSGF14(W)C

L6 4 S L5 NOT L4

L7 1 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)

L8 50 S GTP(W)CYCLOHYDROLASE II(S)SYNTHASE

L9 13 S L8 AND (PLANT OR PLANTS)

L10 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)

L11 37 S RIBA AND (PLANT OR PLANTS)

L12 28 S L11 NOT L9

L13 20 DUPLICATE REMOVE L12 (8 DUPLICATES REMOVED)

L14 768 S RIBOFLAVIN AND STRESS

L15 290 S RIBOFLAVIN(S)STRESS

L16 57 S L15 AND (PLANT OR PLANTS)

L17 36 DUPLICATE REMOVE L16 (21 DUPLICATES REMOVED)

L18 36 S RIBOFLAVIN(W)BIOSYNTHESIS(S) (PLANT OR PLANTS)

L19 36 S L18 NOT L3

L20 33 S L19 NOT L9

L21 33 S L20 NOT L11  
L22 33 S L21 NOT L15  
L23 14 DUPLICATE REMOVE L22 (19 DUPLICATES REMOVED)

=> s l8 and (fragment or truncation or truncated)  
L24 14 L8 AND (FRAGMENT OR TRUNCATION OR TRUCATED)

=> duplicate remove l24  
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, BIOTECHNO'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L24  
L25 5 DUPLICATE REMOVE L24 (9 DUPLICATES REMOVED)

=> d l25 1-5 ti

L25 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1  
TI Identification and characterization of two Streptomyces davawensis  
riboflavin biosynthesis gene clusters.

L25 ANSWER 2 OF 5 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Plant metabolism genes.

L25 ANSWER 3 OF 5 MEDLINE on STN DUPLICATE 2  
TI Production of riboflavin by metabolically engineered Corynebacterium  
ammoniagenes.

L25 ANSWER 4 OF 5 MEDLINE on STN DUPLICATE 3  
TI Helicobacter pylori ribBA-mediated riboflavin production is involved in  
iron acquisition.

L25 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Biosynthesis of riboflavin. Cloning, sequencing, mapping, and  
hyperexpression of the genes ribA coding for GTP  
cyclohydrolase II and ribC coding for riboflavin  
synthase of Escherichia coli.

=> d l25 5 kwic

L25 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Biosynthesis of riboflavin. Cloning, sequencing, mapping, and  
hyperexpression of the genes ribA coding for GTP  
cyclohydrolase II and ribC coding for riboflavin  
synthase of Escherichia coli.

AB The gene coding fo GTP cyclohydrolase II of E. coli was cloned on a 3 kb  
fragment from an EcoRI gene bank by a marker rescue strategy using  
a riboflavin mutant of E. coli. The gene and. . . synthase activity.  
The metabolic defect of this mutant was complemented by a plasmid carrying  
a 6 kb inser. The entire fragment was sequenced by primer walk  
strategy. Several potential open reading frames were found. One ORF of  
639 bp shows homol.. . .

IT Escherichia coli  
Genetic mapping  
Protein sequences  
(cloning, sequencing, mapping, and hyperexpression of genes ribA coding  
for GTP cyclohydrolase II and ribC coding  
for riboflavin synthase of Escherichia coli)

IT Gene, microbial  
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP  
(Properties); BIOL (Biological study); OCCU (Occurrence)  
(ribA, cloning, sequencing, mapping, and hyperexpression of genes ribA  
coding for GTP cyclohydrolase II and ribC

coding for riboflavin synthase of Escherichia coli)

IT Gene, microbial  
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)  
 (ribC, cloning, sequencing, mapping, and hyperexpression of genes ribA coding for GTP cyclohydrolase II and ribC coding for riboflavin synthase of Escherichia coli)

IT 83-88-5, Riboflavin, biological studies  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (cloning, sequencing, mapping, and hyperexpression of genes ribA coding for GTP cyclohydrolase II and ribC coding for riboflavin synthase of Escherichia coli)

IT 9075-82-5, Riboflavin synthase 56214-35-8, GTP cyclohydrolase II 172725-64-3 172726-12-4  
 RL: PRP (Properties)  
 (cloning, sequencing, mapping, and hyperexpression of genes ribA coding for GTP cyclohydrolase II and ribC coding for riboflavin synthase of Escherichia coli)

=> d his

(FILE 'HOME' ENTERED AT 14:56:41 ON 26 MAR 2008)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:57:24 ON 26 MAR 2008

L1 4668 S (COOPER, B? OR COOPER B?)/AU  
 L2 12 S L1 AND TWO(W)HYBRID  
 L3 12 S L2 AND (RICE OR ORYZA OR SATIVA)  
 L4 5 DUPLICATE REMOVE L3 (7 DUPLICATES REMOVED)  
 L5 4 S OSGF14 OR OSGF14-C OR OSGF14(W)C  
 L6 4 S L5 NOT L4  
 L7 1 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)  
 L8 50 S GTP(W)CYCLOHYDROLASE II(S)SYNTHASE  
 L9 13 S L8 AND (PLANT OR PLANTS)  
 L10 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)  
 L11 37 S RIBA AND (PLANT OR PLANTS)  
 L12 28 S L11 NOT L9  
 L13 20 DUPLICATE REMOVE L12 (8 DUPLICATES REMOVED)  
 L14 768 S RIBOFLAVIN AND STRESS  
 L15 290 S RIBOFLAVIN(S)STRESS  
 L16 57 S L15 AND (PLANT OR PLANTS)  
 L17 36 DUPLICATE REMOVE L16 (21 DUPLICATES REMOVED)  
 L18 36 S RIBOFLAVIN(W)BIOSYNTHESIS(S) (PLANT OR PLANTS)  
 L19 36 S L18 NOT L3  
 L20 33 S L19 NOT L9  
 L21 33 S L20 NOT L11  
 L22 33 S L21 NOT L15  
 L23 14 DUPLICATE REMOVE L22 (19 DUPLICATES REMOVED)  
 L24 14 S L8 AND (FRAGMENT OR TRUNCATION OR TRUCATED)  
 L25 5 DUPLICATE REMOVE L24 (9 DUPLICATES REMOVED)

=> file uspatfull

|  |                  |               |
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| COST IN U.S. DOLLARS                       | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST                        | 128.27           | 128.48        |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE                        | -0.80            | -0.80         |

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CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 25 Mar 2008 (20080325/PD)  
FILE LAST UPDATED: 25 Mar 2008 (20080325/ED)  
HIGHEST GRANTED PATENT NUMBER: US7350238  
HIGHEST APPLICATION PUBLICATION NUMBER: US2008072357  
CA INDEXING IS CURRENT THROUGH 25 Mar 2008 (20080325/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 25 Mar 2008 (20080325/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2007  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2007

=> s 11

248 COOPER, B?/AU  
248 COOPER B?/AU  
L26 248 (COOPER, B? OR COOPER B?)/AU

=> s 13

248 COOPER, B?/AU  
248 COOPER B?/AU  
3985782 TWO  
182385 HYBRID  
13684 TWO(W) HYBRID  
60836 RICE  
5893 ORYZA  
6883 SATIVA  
L27 5 L2 AND (RICE OR ORYZA OR SATIVA)

=> d 127 1-5 ti

L27 ANSWER 1 OF 5 USPATFULL on STN  
TI Plant genes involved in defense against pathogens

L27 ANSWER 2 OF 5 USPATFULL on STN  
TI Cell proliferation-related polypeptides and uses therefor

L27 ANSWER 3 OF 5 USPATFULL on STN  
TI Stress-related polypeptides and uses therefor

L27 ANSWER 4 OF 5 USPATFULL on STN  
TI Abiotic stress responsive polynucleotides and polypeptides

L27 ANSWER 5 OF 5 USPATFULL on STN  
TI Genes that are modulated by posttranscriptional gene silencing

=> s 15

2 OSGF14  
2 OSGF14  
2824528 C  
2 OSGF14-C  
(OSGF14(W)C)  
2 OSGF14  
2824528 C  
2 OSGF14(W) C  
L28 2 OSGF14 OR OSGF14-C OR OSGF14(W) C

=> s 128 not 126

L29 0 L28 NOT L26

=> s 19

15343 GTP

```

        500 CYCLOHYDROLASE
1012375 II
        97 CYCLOHYDROLASE II
          (CYCLOHYDROLASE(W) II)
        29148 SYNTHASE
          84 GTP(W) CYCLOHYDROLASE II(S) SYNTHASE
        284365 PLANT
        176698 PLANTS
L30      58 L8 AND (PLANT OR PLANTS)

=> s 111
        299 RIBA
        284365 PLANT
        176698 PLANTS
L31      111 RIBA AND (PLANT OR PLANTS)

=> s 118
        9792 RIBOFLAVIN
        29575 BIOSYNTHESIS
        284365 PLANT
        176698 PLANTS
L32      11 RIBOFLAVIN(W) BIOSYNTHESIS(S) (PLANT OR PLANTS)

=> s 132 not 126
L33      11 L32 NOT L26

=> d 133 1-11 ti

L33 ANSWER 1 OF 11  USPATFULL on STN
TI   Gram positive bacterial mutants and methods of generating and using such
      mutants

L33 ANSWER 2 OF 11  USPATFULL on STN
TI   Nucleic acid sequences relating to Bacteroides fragilis for diagnostics
      and therapeutics

L33 ANSWER 3 OF 11  USPATFULL on STN
TI   Plant metabolism genes

L33 ANSWER 4 OF 11  USPATFULL on STN
TI   Riboflavin synthase genes and enzymes and methods of use

L33 ANSWER 5 OF 11  USPATFULL on STN
TI   Vaccines of pasteurallaceae mutants and vaccination method

L33 ANSWER 6 OF 11  USPATFULL on STN
TI   Lumazine and riboflavin synthase

L33 ANSWER 7 OF 11  USPATFULL on STN
TI   Riboflavin synthase genes and enzymes and methods of use

L33 ANSWER 8 OF 11  USPATFULL on STN
TI   Lumazine synthase and riboflavin synthase

L33 ANSWER 9 OF 11  USPATFULL on STN
TI   Lumazine synthase and riboflavin synthase

L33 ANSWER 10 OF 11 USPATFULL on STN
TI   3,4-dihydroxy-2-butanone 4-phosphate synthase

L33 ANSWER 11 OF 11 USPATFULL on STN
TI   Riboflavin mutants as vaccines against Actinobacillus pleuropneumoniae

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=> d his

(FILE 'HOME' ENTERED AT 14:56:41 ON 26 MAR 2008)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT  
14:57:24 ON 26 MAR 2008

L1 4668 S (COOPER, B? OR COOPER B?)/AU  
L2 12 S L1 AND TWO(W)HYBRID  
L3 12 S L2 AND (RICE OR ORYZA OR SATIVA)  
L4 5 DUPLICATE REMOVE L3 (7 DUPLICATES REMOVED)  
L5 4 S OSGF14 OR OSGF14-C OR OSGF14(W)C  
L6 4 S L5 NOT L4  
L7 1 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)  
L8 50 S GTP(W)CYCLOHYDROLASE II(S)SYNTHASE  
L9 13 S L8 AND (PLANT OR PLANTS)  
L10 7 DUPLICATE REMOVE L9 (6 DUPLICATES REMOVED)  
L11 37 S RIBA AND (PLANT OR PLANTS)  
L12 28 S L11 NOT L9  
L13 20 DUPLICATE REMOVE L12 (8 DUPLICATES REMOVED)  
L14 768 S RIBOFLAVIN AND STRESS  
L15 290 S RIBOFLAVIN(S)STRESS  
L16 57 S L15 AND (PLANT OR PLANTS)  
L17 36 DUPLICATE REMOVE L16 (21 DUPLICATES REMOVED)  
L18 36 S RIBOFLAVIN(W)BIOSYNTHESIS(S) (PLANT OR PLANTS)  
L19 36 S L18 NOT L3  
L20 33 S L19 NOT L9  
L21 33 S L20 NOT L11  
L22 33 S L21 NOT L15  
L23 14 DUPLICATE REMOVE L22 (19 DUPLICATES REMOVED)  
L24 14 S L8 AND (FRAGMENT OR TRUNCATION OR TRUCATED)  
L25 5 DUPLICATE REMOVE L24 (9 DUPLICATES REMOVED)

FILE 'USPATFULL' ENTERED AT 15:18:39 ON 26 MAR 2008

L26 248 S L1  
L27 5 S L3  
L28 2 S L5  
L29 0 S L28 NOT L26  
L30 58 S L9  
L31 111 S L11  
L32 11 S L18  
L33 11 S L32 NOT L26

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|------------|---------|
| ENTRY      | SESSION |
| 0.00       | -0.80   |

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